

EXHIBIT A

Exhibit A

PA-0028 US

agcctataagg ctgttgaata cgagagaagt gctttctaa acgagttct aaatttacca 240
gcagtgtcca ggaagaggcc cagaacatac atattcagca ccagaaaaga ctggcacgca 300
attttcttg acaaactggg tcttgctctt tgaagggtgg gtgggaatgt gctgtttta 360
tgagaatgtc aaagaacttc tcagaatcac attaagcatg ctaattagcc aatattaaat 420
gctaattgtt 430

<210> 637
<211> 4121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 238125.5

<220>
<221> unsure
<222> 697, 702, 715
<223> a, t, c, g, or other

<400> 637
cccgaggctg cagcagcgca tcccggggca tggcgccggcg gggcgcgga gggctcggtt 60
cggagggggc cgggagcccg ggcgcctgg agtggaggagg accggggagct ggctctggag 120
gctcgaggagg cgacgcccggaa gagaacgaag cctcggctgg gagcggatct ttcaagatg 180
gttggctgc ctggagatt tggagatctg atgcccacatg gaggactcac acacgggggg 240
ctcccagtgt gttttcata tatttgcctt gctttgtgtc agcctacatc atcgacgaga 300
acccagaagt tatgattccc ttccaaatg ccaactacga cagccatccc atgctgtact 360
tctccaggca gaagtggcg agctgcagct caggcgtcgc agctgcacg agcacattgc 420
agcccccctc acggaggctc tgcacacatg gctgtccagc cccttggaaat acctccctcc 480
ctggatccc aaggactaca gtgcccgtg gaatgaaatt tttggaaaca acttgggtgc 540
cttggcaatg ttctgtgtgc tttatcctga gaacattgaa gcccggagaca tggccaaaga 600
ctacatggag agatggcag cgcagccctag ttggttgggtt aaagatgctc ttggggatga 660
ggtcccgtt gctcaactccc ttgttggttt tgccacngct tntgacttct ttttanaacta 720
cctgagcaag acacaacagg agaagttct tgaagtgatt gccaatgcct cagggtatata 780
gtatgaaact tcatacagga gaggatgggg atttcaatac ctgcacaatc atcagccac 840
caactgtatg gctttgctca cgggaagcct agtcctgtatg aatcaaggat atcttcaaga 900
agcctactta tggaccaaac aagttctgac catcatggag aaatctctgg tcttgctcag 960
ggagggatgcg gatggctccc tctatgaagg agttgcgtat ggcagctaca ccactagatc 1020
actcttccaa tacatgtttc tcgtccagag gcacttcaac atcaaccact ttggccatcc 1080
gtggcttaaa caacactttt catttatgtt tagaaccatc ctggcagggt ttcaaaggac 1140
tgtggctatt gcccggactcaa attacaactg gttttatggt ccagaaaggcc aatttagtgg 1200
ccttgataaa ttgtcatgc gtaatggcag ttgttaactgg ctatgtgacc aaatcagaag 1260
gaaccgtgtg gtggaaagggtc caggaacacc atccaaagggg cagcgtgtt gcaactctgca 1320
cacagaattt ctctggatgt atggcagctt gaaatcgggtt cctccctccag actttggcac 1380
ccctacactg cattatttt aagactgggg ttgtcgtact tatggaaatgt cactacctgc 1440
agaaaatcaat agatctttcc ttcccttcaa gtctggaaaaa ctggggggac gtgcaatata 1500
tgacattgtc cacagaaaaca aataaaaaaaa ttggatcaaa ggatggagaa attttaatgc 1560
agggcatgaa catcctgatc aaaactcatt tactttgtc cccaaatgggt tgcccttcat 1620
tactgaggct ctgtacgggc caaagttacac cttcttcaac aatgtttga tggtttcccc 1680
agctgtgtca aagagctgtc ttctccctg ggtgggtcag gtcacagaag actgctcatc 1740
aaaatggctc aaatacaagc atgacctggc agcttagttt cagggggaggg tgggtgcagc 1800
agaggagaaa aatgggggtgg ttttcatccg aggagaaggt gtggggagctt ataaccccca 1860
gctcaacctg aagaatgttc agaggaatct catccttca catccacagc tgcttctct 1920
tgttagacca atacacctgg gagaggagag tcccttggag acagcagcga gtttcttcca 1980
taatgtggat gttccctttt aggagactgt gtttagatggt gtccatgggg ctttcatcag 2040
gcagagagat ggtctctata aaatgtactg gatggacgat actggctaca gcgagaaaagc 2100
aacctttggcc tcagtgcacat atcctccgggg ctatccctac aacggggacaa actatgtgaa 2160
tgtcaccatg caccctcgaa gtcccatcac cagggcagct taccttcca tagggccatc 2220
tatagatgtt cagagcttca ctgtccacgg agactctcag caactggatg tggttcatagc 2280
caccagcaaa catgcctacg ccacatacct gtggacagggt gaggccacag gacagtctgc 2340
ctttgcacag gtcattgtct atcgtcacaatttgcattt gacccggaaat cagccatcaa 2400
gagcagcatt gtccctggagg tgaaggacta tgcgtgtatt gtggaaacaga acttgcagca 2460
ttttaaacca gtgtttcagc tgctggagaa gcaagatactg tcccgagtcc ggaacacagc 2520
tagctttagg aagactgtct aacgcctgtct gagattttca gataagagac agactgagga 2580
ggccattgac aggattttgc ccatatcaca gcaacagcag cagcaaagca agtcaaagaa 2640
aaaccgaagg gcaggcaaac gctataaaatt tttttgtatgtc gtccctgtata tttttgcaca 2700

gattgaagtc aatgagaaaa agattagaca gaaagcttag atttggcac agaaaagaact 2760
 acccatagat gaagatgaag aaatgaaaga ccttttagat tttgcagatg taacatacga 2820
 gaaacataaa aatggggct tgattaaagg ccggtttggc caggcacggc tggtgacaac 2880
 tacacacagc agggcccat cactgtctgc ttcttatacc aggttggcc tgattctgaa 2940
 cattgctatt ttcttgc ttttggcaat gcaactgact tatttcaga gggcccagag 3000
 cctacatggc caaagatgtc tttatgcagt tcttctcata gatagctgta ttttattatg 3060
 gttgtactt tcttggccca aatcacatgtt tagtactga agctataaaat tacctggca 3120
 ttttgcatac acaagatgtc atgcaaaaaaa aaaaaatttc cttaccccg attatcagat 3180
 tttttccct cagatttattttaa aaggaaagat attttgcac aagaaagcag 3240
 gaacgtggag aaattggagc agggaaaagaa attatcaaag caatagaaat agcttggtg 3300
 tcctatggc ttttggcaag tatttgcatt tgctatttgc gcaacttgcata tagtactact 3360
 ttttagaaagaa acaaaaagtgc tttttttaa agtaatgtt tttcttatga gaaaaagggtt 3420
 tagatagaat tgggttttat taatattaaat ttaatgcatt tagcaatttc cataactat 3480
 atttgtggaaa agactgaaga atacaatttct gagaatata aaaaaatttt aatggtatac 3540
 tcattgtgaa agataaaatgt tgctaaatgc ttttggatg gtgtgagctt ctttgggaa 3600
 gtacttctt agttatgtaa ctaacaggat gtttactac agatctggat ggctattcag 3660
 ataacatggc aaaaaatgtat agcagaagat cattaaaaac tttttatata ttttatttata 3720
 aaacatttat ctatgaatgt atatttctt gatgctggc tctgcacaca tatgcttgg 3780
 tacttgcattt cattcattgg ttgttcaata agtgagatga ttacagataa cttatactg 3840
 tttttctt atatggaaa ccgttataga cccaataaca actaaacctt taaaaagaaa 3900
 atatttctt ttatgtatgt tgattttcat accaaagaag atggagatgc taaaatttgg 3960
 atatgattct tatgtttttt taatagaaa ctttcttcaa gtttattttc cttatataac 4020
 atcataattt tgaattttctt ctatgttctt tccattatata taaaaatgc 4080
 ttaacatttt cccaaaatttt tgaagagaga tctttatattt g 4121

<210> 638
 <211> 3765
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 331181.1

<220>
 <221> unsure
 <222> 2378, 3184, 3187, 3194
 <223> a, t, c, g, or other

<400> 638
 ggtggcagca gcagcatcac acgtaacaac aacaaaaaaaaa aatccatc aaatcctcac 60
 ctaagcttc agtgtatcca gatccacatc ttcaactcaag ccaggagagg gaaaagaggaa 120
 agggggcag gaaaaaaaaa aaacccaaca acttagcgga aacttctcag agaatgcctcc 180
 aaaactcagc agtgcttctg gtgctggta toagtgcattc tgcaacccat gaggcgagc 240
 agaatgactc tttgagcccc agggaaatccc gaggccgc tcaaaaactca gctgaagtgg 300
 ttcgttgcctt caacagtgc ctacaggctg gtcgcggggc ttttgcattgc ctggaaaact 360
 ccacctgtga cacagatggg atgtatgaca tctgttaaattc cttcttgcattc agcgctgcta 420
 aatttgcacac tcagggaaaaa gcattcgtca aagagagctt aaaatgcattt gccaacgggg 480
 tcaccccaa ggtcttccctt gccattcgga ggtgctccac tttccaaagg atgattgc 540
 aggtgcagga agagtgcattc agcaagctga atgtgtgcag catgcaccaag cggaaacctg 600
 aagccatcac tgggtcgcc cagctgccc atcacttctc caacagatac tataacagac 660
 ttgtccgaag cctgctggaa tttgtatgaa acacagtca cacaatcaga gacagcctga 720
 tggagaaaaat tgggcctaaccat atggccagcc tcttccacat cctgcagaca gaccactgt 780
 cccaaacaca cccacggact gacttcaaca ggagacgcac caatgagccg cagaagctga 840
 aagtccctt caggaacccctt cgagggtgagg aggactctcc ctccacatc aaacgcacat 900
 cccatgagag tgcataaccat gggaggggtt attcacaacc tcacccaaact agtatttattt 960
 taggggtgtt gacacacccag ttttggatgtt actgtgcctg gtttatttt tttaaaggtag 1020
 ttcttattttt ctatccccctt taaagaaaaat tgcattttttt taggcttctg taatcaat 1080
 cccaaacattt tgcataatggca gcatccccat caacaaaaatc catgtgacca ttctgcctct 1140
 cctcaggaga aagtaccctt ttttaccaac ttccctgc ttttgcctt cctgcctccc 1200
 tgagaccacc cccaaacaca aaacattcat gtaactctcc agccattgtt atttgaagat 1260
 gtggatccctt ttagaaccgtt tgcccccgtt gagtttagctt ataaaggaaac ttttattttaa 1320
 tgcattgtctt aaatgcatttcat aaagatgtt aatggaaattt gtgttatgaa tctgtgttgg 1380
 ccatggacga atatgaatgtt ctttttttttgc ttttttttttgc ttttttttttgc 1440
 ggtcttgcattt cttccatgc taatttttttgc ttttttttttgc ttttttttttgc 1500
 ggctgtccaa ccagactttt agccctgcattt ttcttgcattt taatgaaaaaa cccaaaagctt 1560